Cytotechnology

Volume 20, Nos. 1-3, 1996

Special	Issue:	Insect	Cell	Cultures:
Special	looue.	1113601	OGII	Quitules.

Fundamental and Applied Aspects

Guest Editors: J.M. VLAK, C.D. de GOOIJER, J. TRAMPER and H.G. MILTENBURGER

Preface	1
Development and characterization of insect cell lines Dwight E. Lynn	3–11
New approaches to insect tissue culture Danica Baines	13–22
Transgenic insect cells: mosquito cell mutants and the dihydrofolate reductase gene Ann Marie Fallon	23-32
Insect cell physiology Ravinder Bhatia, Gary Jesionowski, Jerome Ferrance & Mohammad M. Ataai	33-41
Insect cell cultivation: growth and kinetics Georg Schmid	43–55
Medium design for insect cell culture Ernst-Jürgen Schlaeger	57-70
Baculovirus – insect cell interactions Gary W. Blissard	73–93
Replication patterns and cytopathology of cells infected with baculoviruses Greg V. Williams & Peter Faulkner	95–110
Construction of baculovirus recombinants Paul A. Kitts	111–123
Passage effect of virus infection in insect cells Peter J. Krell	125-137
Post-translational modifications in insect cells Hans-Dieter Klenk	139–144
Productivity of insect cells for recombinant proteins James E. Maruniak	145–148
Chaperone and foldase coexpression in the baculovirus-insect cell expression system Michael J. Betenbaugh, Eric Ailor, Erik Whiteley, Paul Hinderliter & Tsu-An Hsu	149–160
Shear sensitivity of insect cells Jeffrey J. Chalmers	163–171
Insect cell bioreactors Spiros N. Agathos	173–189
Perfusion for the production of recombinant proteins in insect cells Volker Jäger	191–198
Immobilization of insect cells Jian-Yong Wu & Mattheus F. A. Goosen	199–208
Modelling baculovirus infection of insect cells in culture John Francis Power & Lars Keld Nielsen	209–219

Scale up aspects of sparged insect-cell bloreactors J. Tramper, J.M. Vlak & C.D. de Gooijer	221-229
Oxygen gradients in small and big sparged insect-cell bioreactors J. Tramper, J.M. Vlak & C. D. de Gooijer	231-238
Downstream processing of insect cell cultures Alain R. Bernard, Manjula Lusti-Narasimhan, Kathryn M. Radford, Richard S. Hale, Eric Sebille & Pierre Graber	239–257
Parvovirus diagnostics and vaccine production in insect cells José Ignacio Casal	261–270
Classical swine fever virus diagnostic and vaccine production in insect cells Marcel M. Hulst & Rob J.M. Moormann	271-277
Production of multidomain complement glycoproteins in insect cells Marcel M. Hulst & Rob J.M. Moormann	279–288
Economics of baculovirus – insect cell production systems David J. Rhodes	291–297
Safety aspects of insect cell culture G. Stacey & R. Possee	299–303
Regulatory Issues in the use of insect-cell culture Frank L.J. van Lier	305–309
List of Contributors	
Keyword index	

